PATENT COOPERATION TREATY

LAKE DAWSON WALDRON PATENT SERVICES

RECEIVED: 2 1 JAN 2005

From the: INTERNATIONAL SEARCHING AUTHORITY

	ke Dawson Waldron				PCT	
Lev	vel 39, 101 Collins Stre	eet				
Me	lbourne VIC 3000			WRI	TTEN OPINION OF THE	
				INTERNATIO	DNAL SEARCHING AUTHORITY	
				-	(PCT Rule 43bis.1)	
1				Date of mailing	2 0 JAN 2005	
App	icant's or agent's file referen	nce		(day/month/year)		
13773769				FOR FURTHER ACTION See paragraph 2 below		
	national application No.		International filing date	(day/month/year)	Priority date (day/month/year)	
	Γ/AU2004/001690		3 December 2004		3 December 2003	
Inter	national Patent Classifica	ation (IPC) or	both national classifica	tion and IPC		
Int.	CI. C07D 403/04;	403/14; 413/	'14; 471/04; A61K 3	1/497; A61P 31/12:	37/00	
Appl	icant			, , , , , , , , , , , , , , , , , , , ,		
	CYTOPIA RESEAR	RCH PTY LT	D et al			
		<u> </u>				
1.	This opinion contains in	dications relati	ng to the following iter	ms:		
[X Box No. I Basi	is of the opinion			•	
	Box No. II Prior	rity				
	Box No. III Non-	-establishment o	f opinion with regard to r	ovelty, inventive sten an	d industrial applicability	
	Box No. IV Lack	of unity of inve	ention	,, , , , , , , , , , , , , , , , , , ,	a measurar applicability	
	X Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;				ventive step or industrial applicability;	
	Box No. VI Certa	ain documents ci	ted			
	Box No. VII Certain defects in the international application					
	X Box No. VIII Certain observations on the international application					
2. <u>1</u>	TURTHER ACTION				•	
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.						
	If this opinion is, as provide	ed above consid	lorod to be a			

ided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the IPEA/AU
AUSTRALIAN PATENT OFFICE
PO BOX 200, WODEN ACT 2606 AUSTRALIA
E-mail address: pct@ipaustralia gov au
Facsimile No. (02) 6285 3929

Authorized Officer

MADHU K. JOGIA

Telephone No. (02) 6283 2512

'AP9 Rec'dPCTPTO 01 JUN 20

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2004/001690

Box	No. I Basis of the opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	in written format
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2004/001690

Box No. V		der Rule 43 <i>bis.</i> 1(a)(i) with regard to nov and explanations supporting such staten	
1. Statement			
No	ovelty (N)	Claims .	YES
		Claims 1-12	. NO
· Inv	ventive step (IS)	Claims	YES
		Claims 1-12	NO
Inc	dustrial applicability (IA)	Claims 1-12	YES
		Claims	NO

2. Citations and explanations:

The following documents identified in the International Search Report have been considered for the purposes of this report:

D1 WO 2000/062778

D2 WO 2003/099811 (P,X document; see Box V1)

Novelty (N) and Inventive Step (IS) Claims 1-12

The present invention relates to pyrazine derivatives of formula 1 for use as kinase inhibitors. The compounds include D as a heterocyclic ring selected from imidazole.

However, D1 clearly discloses and teaches kinase inhibitors, particularly, compound 486 at page 165 wherein group D represents imidazole and A is hetaryl as in claim 1 of the present invention.

Therefore the invention as defined in claims 1-12 is not novel and lacks an inventive step.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2004/001690

Во	x No. VI Certain docum	ents cited		-			
1.	Certain published documents	(Rules 43bis.	1 and 70.10)				
	Application No. Patent No.		ation date onth/year)	Filing date (day/month/year)		Priority date (valid claim) (day/month/year)	
	WO 2003/099881	04/1	2/2004	23/05/2003		23/05/20	002
					·		
Co	mpounds of formula 1 of the	e present inv	ention are fully di	sclosed in D2, WO 20	03/09988	1.	
					-		
2.	Non-written disclosures (Rule	es 43 <i>bis</i> .1 and	70.9)				•
	Kind of non-written disclosure		Date of non-written disclosure (day/month/year)		Date of written disclosure referring to non-written disclosure (day/month/year)		
						·	
					-		
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

	PCT/AU2004/001690
Box No. VIII Certain observations on the international application	
The following observations on the clarity of the claims, description, and drawings or on the que supported by the description, are made:	estion whether the claims are fully
Claim 3 is not clear. Several of the compounds recited in claim 3 do not appear to fall. These compounds include the last five compounds illustrated at page 62 of the install.	
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